Bishmit Regmi

Email: bishmitregmi@gmail.com | Phone: (+977) 9865349677

LinkedIn: https://www.linkedin.com/in/bishmit-regmi-20852b260/

GitHub: https://github.com/Bishmit

Portfolio Website

Profile

Enthusiastic C++/Unity Developer with hands-on experience in building game systems, physics simulations, and interactive visualizations. Skilled in modern C++ (C++11-20), Unity (C#), and OpenGL. Passionate about creating performant and maintainable systems from the ground up, and deeply interested in low-level game engine mechanics and algorithms.

Project Experience

2D Rigid Body Physics Engine| C++, OpenGL, GLFW, GLSL, GLM

- Built a custom 2D physics engine from scratch. Implemented custom collision detection and resolution logic with a custom math library for simulation.

Graph Traversal Visualizer | C++, SFML

- Developed an interactive tool to visualize BFS and DFS algorithms, focusing on rendering performance and intuitive controls.

A* Pathfinding visualization | C++, SFML

- Built algorithm visualizations demonstrating heuristic pathfinding and sorting efficiency, with smooth animations.

Traffic Avoid Car Simulator 3d | Unity, C#

- Created a 3D endless driving game with realistic collisions and UI using Unity's physics system.

Donkey Kong Inspired 2D Platformer | Unity, C#

- Designed platformer for unity understanding using Unity's Prefabs, Unity's animation system, and scene management.

Technical Skills

Languages: C++ (11/14/17/20), C#, Python, Web Dev (JavaScript)

Tools & Engines: Unity, SFML, SDL, OpenGL, Raylib, CMake, Git, SQL, Blender (Basic)

CoreStrengths:

- Game Development and Engine Fundamentals

- Data Structures and Algorithms

- Performance Optimization & Memory Management

 - Graphics Programming (GLFW, GLAD, GLM)

 - Neural Networks & Evolutionary Algorithms (Basic)

Achievements

- 1st Runner-Up - Intracollege Hackathon 2024

- Participant - Intercollege Hackathon 2023

Education

BSc. Computer Science and Information Technology (CSIT)

Lumbini ICT Campus, Tribhuvan University | 2022-2026

+2 Science - Gurukul College

SEE - Sunrise English Boarding School